

We Claim:

1. A composition comprising:
 - 5 (a) at least one cationically curable species;
 - (b) at least one cationic photoinitiator; and
 - (c) at least one encapsulated, polymer-bound base.
- 10 2. The composition of Claim 1 wherein said cationically curable species is a monomer.
- 15 3. The composition of Claim 1 wherein said cationically curable species is selected from the group consisting of vinyl ethers; vinylidene ethers; N-vinyl carbazoles; vinyl silanes; N-vinyl pyrrolidinone; 1,1-dialkyl-, trialkyl-, and tetraalkyl-substituted olefins; styrene and substituted styrenes; cyclic and acyclic olefins; conjugated diolefins; epoxides; cyclic ethers; and mixtures thereof.
- 20 4. The composition of Claim 1 wherein said cationically curable species is selected from the group consisting of epoxides, vinyl ethers, and mixtures thereof.
5. The composition of Claim 1 wherein said photoinitiator comprises an onium salt.
6. The composition of Claim 5 wherein said onium salt comprises at least one anion selected from the group consisting of:
 - 25 $(R_fSO_2)_2C^-$
 - and
 - $(R_fSO_2)_2N^-$wherein each R_f is independently selected from the group consisting of fluorinated or perfluorinated alkyl radicals having from 1 to about 20 carbon atoms, fluorinated aryl radicals having from 6 to about 10 carbon atoms, and ring structures formed from two said fluorinated or perfluorinated alkyl radicals joined together to form a unitary alkylene

radical having 5 or 6 ring atoms, said radicals optionally containing one or more divalent oxygen, trivalent nitrogen, or divalent sulfur atoms.

7. The composition of Claim 1 wherein said photoinitiator comprises an
5 organometallic complex.

8. The composition of Claim 1 wherein said encapsulated, polymer-bound base is selected from those represented by the formula A-B_n, wherein A is a substantially insoluble particle, each B is an independently selected base unit, n is an integer of at least
10 1, and A and B are joined by a covalent chemical bond.

9. The composition of Claim 8 wherein said A is selected from the group consisting of organic polymer particles and inorganic particles.

15 10. The composition of Claim 9 wherein said A is an organic polymer particle.

11. The composition of Claim 8 wherein said A comprises at least one side-chain crystallizable polymer.

20 12. The composition of Claim 11 wherein said side-chain crystallizable polymer comprises C₁₂ – C₅₀ aliphatic groups.

13. The composition of Claim 8 wherein said B is selected from the group consisting of primary amines, secondary amines, tertiary amines, and heterocyclic amines.

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14. The composition of Claim 1 wherein said encapsulated, polymer-bound base is enclosed in at least one encapsulant material.

30 15. The composition of Claim 14 wherein said encapsulated, polymer-bound base is microencapsulated.

16. A composition comprising:

(a) at least one cationically curable species selected from the group consisting of epoxides, vinyl ethers, and mixtures thereof;

(b) at least one onium salt; and

5 (c) at least one encapsulated, polymer-bound base selected from those represented by the formula A-B_n, wherein A comprises at least one side-chain crystallizable polymer; B is a base unit selected from the group consisting of primary amines, secondary amines, tertiary amines, and imidazoles; n is an integer of at least 1; and A and B are joined by a covalent chemical bond.

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17. The composition of claim 16 wherein said onium salt comprises an anion selected from the group consisting of C(SO₂CF₃)₃⁻ and N(SO₂CF₃)₂⁻, and said base unit is imidazole.

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18. The composition of Claim 1 at least partially cured.

19. The composition of Claim 16 at least partially cured.

20. An article comprising the composition of Claim 18.

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21. An article comprising the composition of Claim 19.

22. The article of Claim 20 further comprising at least one substrate having at least one surface that is degradable by acid.

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23. The article of Claim 21 further comprising at least one substrate having at least one surface that is degradable by acid.

24. A process comprising the steps of:

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(a) providing a composition comprising:

(1) at least one cationically curable species;

(2) at least one cationic photoinitiator; and

- (3) at least one encapsulated, polymer-bound base;
- (b) irradiating at least a portion of said composition to effect at least partial cure of said portion; and
- (c) exposing at least said portion of said composition to conditions sufficient to make said encapsulated, polymer-bound base chemically available for reaction.